

AMENDMENTS TO THE CLAIMS

Pursuant to 37 C.F.R. § 1.121 the following listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claim 1 (Currently Amended): A scanning microscope comprising:

a light source that emits an illuminating light beam, for illumination of a sample, that extends along an illumination beam path and can be guided over the sample using a beam deflection device;

a detector that receives detection light, proceeding from the sample, that extends along a detection beam path;

a light source that emits a manipulating light beam; and

a mirror which can be selectively introduced in guided fashion into the illumination and detection beam paths at a position in the illumination and detection beam paths, the detection beam path having a direction opposite to a direction of the illumination beam path at the position, whereby the mirror directs the manipulating light beam via the beam deflection device onto the sample, and wherein the manipulating light beam can be guided over the sample using the beam deflection device.

Claim 2 (Original): The scanning microscope as defined in Claim 1, wherein the mirror is a hinged mirror.

Claim 3 (Withdrawn): The scanning microscope as defined in Claim 1, wherein the mirror is motor-driven.

Claim 4 (Withdrawn): The scanning microscope as defined in Claim 3, wherein the mirror is motor-driven using a galvanometer.

Claim 5 (Withdrawn): The scanning microscope as defined in Claim 1, wherein the illuminating light beam can be interrupted by the mirror.

Claim 6 (Canceled)

Claim 7 (Withdrawn): The scanning microscope as defined in Claim 1, wherein the mirror has a metal coating.

Claim 8 (Currently Amended): ~~A~~ The scanning microscope as defined in Claim 1, comprising:
a light source that emits an illuminating light beam, for illumination of a sample, that extends along an illumination beam path and can be guided over the sample using a beam deflection device;
a detector that receives detection light, proceeding from the sample, that extends along a detection beam path;
a light source that emits a manipulating light beam; and
a mirror which can be introduced in guided fashion into the illumination and detection beam paths at a position in the illumination and detection beam paths, the detection beam path having a direction opposite to a direction of the illumination beam path at the position,
whereby the mirror directs the manipulating light beam via the beam deflection device onto the sample,
wherein the manipulating light beam can be guided over the sample using the beam deflection device, and
wherein the mirror is at least partially transparent to the illuminating light beam.

Claim 9 (Original): The scanning microscope as defined in Claim 8, wherein the illuminating light beam and the manipulating light beam can be guided together over and/or through the sample.

Claim 10 (Original): The scanning microscope as defined in Claim 1, wherein the illuminating light beam can be guided on a scanning track over and/or through the sample.

Claim 11 (Original): The scanning microscope as defined in Claim 10, wherein the manipulating light beam can be guided on the scanning track over and/or through the sample.

Claim 12 (Withdrawn): The scanning microscope as defined in Claim 11, wherein the manipulating light beam precedes the illuminating light beam on the scanning track.

Claim 13 (Original): The scanning microscope as defined in Claim 11, wherein the scanning track is largely meander-shaped or sinusoidal.

Claim 14 (Original): The scanning microscope as defined in Claim 1, wherein the manipulating light beam at least partially bleaches the sample.

Claim 15 (Original): The scanning microscope as defined in Claim 1, wherein the manipulating light beam cuts the sample.

Claim 16 (Original): The scanning microscope as defined in Claim 1, wherein the manipulating light beam acts as an optical tweezers.

Claim 17 (Original): The scanning microscope as defined in Claim 1, wherein the scanning microscope is a confocal scanning microscope.

Claim 18 (Currently Amended): A scanning microscope as defined in Claim 1, comprising: a light source that emits an illuminating light beam, for illumination of a sample, that extends along an illumination beam path and can be guided over the sample using a beam deflection device; a detector that receives detection light, proceeding from the sample, that extends along a detection beam path;

a light source that emits a manipulating light beam; and

a mirror which can be introduced in guided fashion into the illumination and detection beam paths at a position in the illumination and detection beam paths, the detection beam path having a direction opposite to a direction of the illumination beam path at the position,

whereby the mirror directs the manipulating light beam via the beam deflection device onto the sample,

wherein the manipulating light beam can be guided over the sample using the beam deflection device, and

wherein the mirror can be put in a neutral position out of the illumination beam path.